

In the claims:

Please amend claims 1, 2, 4, 5, and 6 as follows:

1. (currently amended): An apparatus for cooling single and multiple high-flux and ultra-high-flux heat ~~dissipating source~~ devices, comprising
 - a liquid coolant module having a base plate and a cover plate defining therebetween a liquid coolant chamber with a liquid coolant inlet port and a liquid coolant outlet port in fluid communication with the liquid coolant chamber;
 - at least one heat dissipating device mounted to the ~~liquid coolant module base plate~~;
 - a multi-level-cooling-enhancement stud mounted upon each heat dissipating device and disposed within the liquid coolant ~~module; and chamber having~~ means for inducing phase change nucleate boiling of a subcooled liquid coolant within the liquid coolant ~~module chamber~~ to enhance ~~it's the liquid coolant module's~~ cooling performance.
2. (currently amended): The apparatus of claim 1, wherein ~~the multi-level cooling enhancement studs include each multi-level-cooling-enhancement stud includes~~ a centimeter-scale cylindrical core and millimeter-scale fins having micro-scale surface textures.
3. (original): The apparatus of claim 1 and further comprising means for reducing vapor buildup from the phase change nucleate boiling of a subcooled liquid coolant by condensing vapor bubbles from the phase change nucleate boiling before they coalesce into large vapor masses.
4. (currently amended): The apparatus of claim 1 wherein ~~the multilevel cooling enhancement studs are each multi-level-cooling-enhancement-stud is disposed to be submerged within the liquid coolant flowing through the liquid coolant chamber from the liquid coolant inlet port to the liquid coolant outlet port.~~

5. (currently amended): The apparatus of claim 4 and further comprising means to induce jet-impriment cross-flow of the liquid coolant within the liquid coolant module against surfaces of each ~~of the~~ multi-level-cooling-enhancement ~~studs~~ stud in closest proximity to the liquid coolant inlet port to thereby clear away from these surfaces vapor generated from phase change nucleate boiling.

6. (currently amended): The apparatus of claim 5 wherein the means to induce the jet-impingement cross-flow of the subcooled liquid coolant includes micro-enhanced or mini-channel liquid coolant flow passages within the liquid coolant module to direct liquid coolant flow to ~~the~~ each multi-level-cooling-enhancement ~~studs~~ stud at a speed greater than the speed of the liquid coolant flowing through the liquid coolant inlet port.